

John Christopher Vederas

List of Publications by Year in descending order

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232
papers

14,779
citations

28274

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241
docs citations

241
times ranked

13552
citing authors

#	ARTICLE	IF	CITATIONS
1	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. <i>Natural Product Reports</i> , 2013, 30, 108-160.	10.3	1,692
2	Drug Discovery and Natural Products: End of an Era or an Endless Frontier?. <i>Science</i> , 2009, 325, 161-165.	12.6	1,688
3	Modulation of Polyketide Synthase Activity by Accessory Proteins During Lovastatin Biosynthesis. <i>Science</i> , 1999, 284, 1368-1372.	12.6	606
4	Characterization of leucocin A-UAL 187 and cloning of the bacteriocin gene from <i>Leuconostoc gelidum</i> . <i>Journal of Bacteriology</i> , 1991, 173, 7491-7500.	2.2	350
5	Feline coronavirus drug inhibits the main protease of SARS-CoV-2 and blocks virus replication. <i>Nature Communications</i> , 2020, 11, 4282.	12.8	334
6	Lipopeptides from <i>Bacillus</i> and <i>Paenibacillus</i> spp.: A Gold Mine of Antibiotic Candidates. <i>Medicinal Research Reviews</i> , 2016, 36, 4-31.	10.5	332
7	Lovastatin Nonaketide Synthase Catalyzes an Intramolecular Diels-Alder Reaction of a Substrate Analogue. <i>Journal of the American Chemical Society</i> , 2000, 122, 11519-11520.	13.7	226
8	Amination of chiral enolates by dialkyl azodiformates. Synthesis of .alpha.-hydrazino acids and .alpha.-amino acids. <i>Journal of the American Chemical Society</i> , 1986, 108, 6397-6399.	13.7	223
9	Two-peptide bacteriocins produced by lactic acid bacteria. <i>Biochimie</i> , 2002, 84, 577-592.	2.6	199
10	Conversion of serine to stereochemically pure .beta.-substituted .alpha.-amino acids via .beta.-lactones. <i>Journal of the American Chemical Society</i> , 1985, 107, 7105-7109.	13.7	188
11	Loss of Apelin Exacerbates Myocardial Infarction Adverse Remodeling and Ischemia-Induced Reperfusion Injury: Therapeutic Potential of Synthetic Apelin Analogues. <i>Journal of the American Heart Association</i> , 2013, 2, e000249.	3.7	171
12	Angiotensin-Converting Enzyme 2 Metabolizes and Partially Inactivates Pyr-Apelin-13 and Apelin-17. <i>Hypertension</i> , 2016, 68, 365-377.	2.7	152
13	Structural Characterization of Lacticin 3147, a Two-Peptide Lantibiotic with Synergistic Activity. <i>Biochemistry</i> , 2004, 43, 3049-3056.	2.5	150
14	Isolation and Characterization of Carnocyclin A, a Novel Circular Bacteriocin Produced by <i>Carnobacterium maltaromaticum</i> UAL307. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4756-4763.	3.1	134
15	Synthesis of optically pure .alpha.-amino acids via salts of .alpha.-amino-beta.-propiolactone. <i>Journal of the American Chemical Society</i> , 1988, 110, 2237-2241.	13.7	129
16	Antimicrobial lipopeptide tridecaptin A ₁ selectively binds to Gram-negative lipid II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11561-11566.	7.1	127
17	Biosynthesis of the hypocholesterolemic agent mevinolin by <i>Aspergillus terreus</i> . Determination of the origin of carbon, hydrogen, and oxygen atoms by carbon-13 NMR and mass spectrometry. <i>Journal of the American Chemical Society</i> , 1985, 107, 3694-3701.	13.7	124
18	Bacterial diaminopimelate metabolism as a target for antibiotic design. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 843-871.	3.0	120

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19	Structural variations in keto-glutamines for improved inhibition against hepatitis A virus 3C proteinase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 3655-3658.	2.2	119
20	Stereoselective Synthesis of meso-2,6-Diaminopimelic Acid and Its Selectively Protected Derivatives. <i>Journal of Organic Chemistry</i> , 1998, 63, 2133-2143.	3.2	118
21	Structure and genetics of circular bacteriocins. <i>Trends in Microbiology</i> , 2011, 19, 411-418.	7.7	116
22	Synthesis of Biologically Active Dicarba Analogues of the Peptide Hormone Oxytocin Using Ring-Closing Metathesis. <i>Organic Letters</i> , 2003, 5, 47-49.	4.6	115
23	Conversion of serine .beta.-lactones to chiral .alpha.-amino acids by copper-containing organolithium and organomagnesium reagents. <i>Journal of the American Chemical Society</i> , 1987, 109, 4649-4659.	13.7	113
24	Structure of Subtilosin A, an Antimicrobial Peptide from <i>Bacillus subtilis</i> with Unusual Posttranslational Modifications Linking Cysteine Sulfurs to Î±-Carbons of Phenylalanine and Threonine. <i>Journal of the American Chemical Society</i> , 2003, 125, 4726-4727.	13.7	111
25	Biosynthesis of lovastatin and related metabolites formed by fungal iterative PKS enzymes. <i>Biopolymers</i> , 2010, 93, 755-763.	2.4	108
26	The expanding structural variety among bacteriocins from Gram-positive bacteria. <i>FEMS Microbiology Reviews</i> , 2018, 42, 805-828.	8.6	104
27	Synthesis of Oxytocin Analogues with Replacement of Sulfur by Carbon Gives Potent Antagonists with Increased Stability. <i>Journal of Organic Chemistry</i> , 2005, 70, 7799-7809.	3.2	98
28	Solid Supported Chemical Syntheses of Both Components of the Lantibiotic Lacticin 3147. <i>Journal of the American Chemical Society</i> , 2011, 133, 14216-14219.	13.7	90
29	Solution Structure of Carnobacteriocin B2 and Implications for Structure~Activity Relationships among Type IIa Bacteriocins from Lactic Acid Bacteria. <i>Biochemistry</i> , 1999, 38, 15438-15447.	2.5	89
30	Aspects of the biosynthesis of non-aromatic fungal polyketides by iterative polyketide synthases. <i>Antonie Van Leeuwenhoek</i> , 2000, 78, 287-295.	1.7	89
31	The use of stable isotopes in biosynthetic studies. <i>Natural Product Reports</i> , 1987, 4, 277.	10.3	86
32	Polymer-supported alkyl azodicarboxylates for Mitsunobu reactions. <i>Journal of the American Chemical Society</i> , 1989, 111, 3973-3976.	13.7	86
33	Soybean meal-induced enteritis in Atlantic salmon (<i>Salmo salar</i>) and Chinook salmon (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Over 3.5 86	0.784314	86
34	Photoelectron-determined core binding energies and predicted gas-phase basicities for the 2-hydroxypyridine .dblew. 2-pyridone system. <i>Journal of the American Chemical Society</i> , 1980, 102, 1174-1176.	13.7	85
35	Atypical Genetic Locus Associated with Constitutive Production of Enterocin B by <i>Enterococcus faecium</i> BFE 900. <i>Applied and Environmental Microbiology</i> , 1999, 65, 2170-2178.	3.1	85
36	Interchange of functionality in conjugated carbonyl compounds through isoxazoles. <i>Journal of the American Chemical Society</i> , 1972, 94, 9128-9132.	13.7	84

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37	Structural dependence of oxygen-18 isotope shifts in carbon-13 NMR spectra. <i>Journal of the American Chemical Society</i> , 1980, 102, 374-376.	13.7	84
38	A fungal ketoreductase domain that displays substrate-dependent stereospecificity. <i>Nature Chemical Biology</i> , 2012, 8, 331-333.	8.0	84
39	Targeting the apelin pathway as a novel therapeutic approach for cardiovascular diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 1942-1950.	3.8	81
40	The activity of bacteriocins from <i>Carnobacterium maltaromaticum</i> UAL307 against Gram-negative bacteria in combination with EDTA treatment. <i>FEMS Microbiology Letters</i> , 2011, 317, 152-159.	1.8	79
41	Structural insights into stereochemical inversion by diaminopimelate epimerase: An antibacterial drug target. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8668-8673.	7.1	78
42	The Three-dimensional Structure of Carnocyclin A Reveals That Many Circular Bacteriocins Share a Common Structural Motif. <i>Journal of Biological Chemistry</i> , 2009, 284, 28674-28681.	3.4	78
43	Stereochemistry of pyridoxal phosphate catalyzed enzyme reactions. <i>Accounts of Chemical Research</i> , 1980, 13, 455-463.	15.6	77
44	Dynamic Relationships among Type IIa Bacteriocins: Temperature Effects on Antimicrobial Activity and on Structure of the C-Terminal Amphipathic α Helix as a Receptor-Binding Region. <i>Biochemistry</i> , 2004, 43, 9009-9020.	2.5	75
45	A carbonate-forming Baeyer-Villiger monooxygenase. <i>Nature Chemical Biology</i> , 2014, 10, 552-554.	8.0	75
46	Highly Selective but Multifunctional Oxygenases in Secondary Metabolism. <i>Accounts of Chemical Research</i> , 2014, 47, 3148-3161.	15.6	74
47	Modification of the Swern Oxidation: Use of a Soluble Polymer-Bound, Recyclable, and Odorless Sulfoxide. <i>Journal of Organic Chemistry</i> , 1998, 63, 2407-2409.	3.2	71
48	Peptidomimetic α -Acylloxymethylketone Warheads with Six-Membered Lactam P1 Glutamine Mimic: SARS-CoV-2 3CL Protease Inhibition, Coronavirus Antiviral Activity, and <i>in Vitro</i> Biological Stability. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 2905-2925.	6.4	71
49	Biosyntheses of antibiotic A26771B by <i>Penicillium turbatum</i> and dehydrocurvularin by <i>Alternaria cinerariae</i> : comparison of stereochemistry of polyketide and fatty acid enoyl thiol ester reductases. <i>Journal of the American Chemical Society</i> , 1989, 111, 3391-3399.	13.7	70
50	NATURALLY OCCURRING β -LACTONES: OCCURRENCE, SYNTHESSES AND PROPERTIES. A REVIEW. <i>Organic Preparations and Procedures International</i> , 1995, 27, 305-346.	1.3	70
51	Peptide Aldehyde Inhibitors of Hepatitis A Virus 3C Proteinase. <i>Biochemistry</i> , 1995, 34, 8172-8179.	2.5	67
52	Genetic Characterization and Heterologous Expression of Brochocin-C, an Antibotulinal, Two-Peptide Bacteriocin Produced by <i>Brochothrix campestris</i> ATCC 43754. <i>Applied and Environmental Microbiology</i> , 1998, 64, 4757-4766.	3.1	67
53	Synthesis of 3-fluorodiaminopimelic acid isomers as inhibitors of diaminopimelate epimerase: stereocontrolled enzymatic elimination of hydrogen fluoride. <i>Journal of the American Chemical Society</i> , 1990, 112, 4932-4942.	13.7	61
54	The 3D Solution Structure of Thurincin-H, a Bacteriocin with Four Sulfur to α -Carbon Crosslinks. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8718-8721.	13.8	61

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55	Mechanistic insights into COVID-19 by global analysis of the SARS-CoV-2 3CLpro substrate degradome. <i>Cell Reports</i> , 2021, 37, 109892.	6.4	60
56	The Synthesis of Active and Stable Diaminopimelate Analogues of the Lantibiotic Peptide Lactocin S. <i>Journal of the American Chemical Society</i> , 2012, 134, 2008-2011.	13.7	59
57	Comparison of fatty acid and polyketide biosynthesis: stereochemistry of cladosporin and oleic acid formation in <i>Cladosporium cladosporioides</i> . <i>Journal of the American Chemical Society</i> , 1989, 111, 3382-3390.	13.7	58
58	Solution Structure of Acidocin B, a Circular Bacteriocin Produced by <i>Lactobacillus acidophilus</i> M46. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2910-2918.	3.1	58
59	Intact incorporation of acetate-derived di- and tetraketides during biosynthesis of dehydrocurvularin, a macrolide phytotoxin from <i>Alternaria cinerariae</i> . <i>Journal of the American Chemical Society</i> , 1990, 112, 3212-3213.	13.7	57
60	Antimicrobial Leucocin Analogues with a Disulfide Bridge Replaced by a Carbocycle or by Noncovalent Interactions of Allyl Glycine Residues. <i>Journal of the American Chemical Society</i> , 2006, 128, 14252-14253.	13.7	57
61	The Metalloprotease Neprilysin Degrades and Inactivates Apelin Peptides. <i>ChemBioChem</i> , 2016, 17, 1495-1498.	2.6	57
62	Improved SARS-CoV-2 Mpro inhibitors based on feline antiviral drug GC376: Structural enhancements, increased solubility, and micellar studies. <i>European Journal of Medicinal Chemistry</i> , 2021, 222, 113584.	5.5	57
63	Genetic Determinants of Reutericyclin Biosynthesis in <i>Lactobacillus reuteri</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 2032-2041.	3.1	56
64	Formation of peptide amides by peptidylglycine .alpha.-amidating monooxygenase: a new assay and stereochemistry of hydrogen loss. <i>Journal of the American Chemical Society</i> , 1988, 110, 8526-8532.	13.7	55
65	Biochemical, Structural, and Genetic Characterization of Tridecaptin A ₁ , an Antagonist of <i>Campylobacter jejuni</i> . <i>ChemBioChem</i> , 2014, 15, 243-249.	2.6	54
66	Oxidation of enolates by dibenzyl peroxydicarbonate to carbonates of .alpha.-hydroxy carbonyl compounds. <i>Journal of Organic Chemistry</i> , 1986, 51, 3700-3704.	3.2	53
67	Analogues of Bacteriocins: Antimicrobial Specificity and Interactions of Leucocin A with Its Enantiomer, Carnobacteriocin B2, and Truncated Derivatives. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4579-4581.	6.4	53
68	Understanding Programming of Fungal Iterative Polyketide Synthases: The Biochemical Basis for Regioselectivity by the Methyltransferase Domain in the Lovastatin Megasyntase. <i>Journal of the American Chemical Society</i> , 2015, 137, 15688-15691.	13.7	53
69	Biochemical and Structural Basis for Controlling Chemical Modularity in Fungal Polyketide Biosynthesis. <i>Journal of the American Chemical Society</i> , 2015, 137, 9885-9893.	13.7	53
70	Revision of the biosynthetic origin of oxygens in mevinoлин (lovastatin), a hypocholesterolemic drug from <i>Aspergillus terreus</i> MF 4845. <i>Journal of the American Chemical Society</i> , 1994, 116, 2693-2694.	13.7	52
71	Reaction of .beta.-hydroxy .alpha.-amino acid derivatives with (diethylamino)sulfur trifluoride (DAST). Synthesis of .beta.-fluoro .alpha.-amino acids. <i>Journal of Organic Chemistry</i> , 1987, 52, 4804-4810.	3.2	51
72	Solid-Supported Synthesis and Biological Evaluation of the Lantibiotic Peptide Bis(desmethyl) Lactocin A2. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9472-9475.	13.8	51

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73	Synthesis of Tridecaptinâ€“Antibiotic Conjugates with in Vivo Activity against Gram-Negative Bacteria. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 9779-9785.	6.4	51
74	A Mechanistic View of Enzyme Inhibition and Peptide Hydrolysis in the Active Site of the SARS-CoV 3C-like Peptidase. <i>Journal of Molecular Biology</i> , 2007, 371, 1060-1074.	4.2	50
75	Studies on tridecaptin B ₁ , a lipopeptide with activity against multidrug resistant Gram-negative bacteria. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6073-6081.	2.8	50
76	Synthesis, Stability, and Antimicrobial Activity of (+)-Obafluorin and Related .beta.-Lactone Antibiotics. <i>Journal of Organic Chemistry</i> , 1994, 59, 3642-3655.	3.2	49
77	Mechanism of formation of serine Î²-lactones by Mitsunobu cyclization: synthesis and use of L-serine stereospecifically labelled with deuterium at C-3. <i>Canadian Journal of Chemistry</i> , 1986, 64, 706-713.	1.1	48
78	Synthesis of a C-phosphonate disaccharide as a potential inhibitor of peptidoglycan polymerization by transglycosylase. <i>Journal of Organic Chemistry</i> , 1993, 58, 3480-3482.	3.2	48
79	Biosynthesis of mevinolin. Spectral assignment by double-quantum coherence NMR after high carbon-13 incorporation. <i>Journal of the American Chemical Society</i> , 1983, 105, 3334-3336.	13.7	47
80	Structural characterization of thioether-bridged bacteriocins. <i>Journal of Antibiotics</i> , 2014, 67, 23-30.	2.0	47
81	Synthesis and Testing of Heterocyclic Analogs of Diaminopimelic Acid (DAP) as Inhibitors of DAP Dehydrogenase and DAP Epimerase. <i>Journal of the American Chemical Society</i> , 1994, 116, 6513-6520.	13.7	45
82	Synthesis and Evaluation of Novel Substrates and Inhibitors of N-Succinyl-II-diaminopimelate Aminotransferase (DAP-AT) from <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 1996, 118, 7449-7460.	13.7	45
83	The circular bacteriocin, carnocyclin A, forms anion-selective channels in lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1797-1803.	2.6	45
84	Identification of an N-Terminal Formylated, Two-Peptide Bacteriocin from <i>Enterococcus faecalis</i> 710C. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 5602-5608.	5.2	44
85	Solution Structures of Phenol-Soluble Modulins Î±1, Î±3, and Î²2, Virulence Factors from <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , 2016, 55, 4798-4806.	2.5	44
86	Synthesis and reactivity of .beta.-lactones derived from L-threonine and related amino acids. <i>Journal of Organic Chemistry</i> , 1989, 54, 2311-2316.	3.2	43
87	Synthesis of mono- and disaccharide analogs of moenomycin and lipid II for inhibition of transglycosylase activity of penicillin-binding protein 1b. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 6473-6494.	3.0	43
88	Production of New Cladosporin Analogues by Reconstitution of the Polyketide Synthases Responsible for the Biosynthesis of this Antimalarial Agent. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 664-668.	13.8	43
89	Diacylglycerol Acyltransferase 1 Is Regulated by Its N-Terminal Domain in Response to Allosteric Effectors. <i>Plant Physiology</i> , 2017, 175, 667-680.	4.8	43
90	Apelin directs endothelial cell differentiation and vascular repair following immune-mediated injury. <i>Journal of Clinical Investigation</i> , 2019, 130, 94-107.	8.2	43

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91	Biosynthetic incorporation of labeled tetraketide intermediates into dehydrocurvularin, a phytotoxin from <i>Alternaria cinerariae</i> , with assistance of β -oxidation inhibitors. <i>Journal of the American Chemical Society</i> , 1992, 114, 1531-1533.	13.7	42
92	A concise stereoselective synthesis of orthogonally protected lanthionine and β^2 -methylanthionine. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 1031-1038.	2.8	42
93	Fungal xanthone biosynthesis. Distribution of acetate-derived oxygens in ravenelin. <i>Journal of the American Chemical Society</i> , 1982, 104, 1745-1748.	13.7	41
94	Functional characterization of recombinant hyoscyamine 6β -hydroxylase from <i>Atropa belladonna</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 4356-4363.	3.0	40
95	Investigation of Fungal Iterative Polyketide Synthase Functions Using Partially Assembled Intermediates. <i>Journal of the American Chemical Society</i> , 2013, 135, 1735-1738.	13.7	40
96	Peptidomimetic nitrile warheads as SARS-CoV-2 3CL protease inhibitors. <i>RSC Medicinal Chemistry</i> , 2021, 12, 1722-1730.	3.9	40
97	Analogues of diaminopimelic acid as inhibitors of meso-diaminopimelate dehydrogenase and LL-diaminopimelate epimerase. <i>Journal of Biological Chemistry</i> , 1988, 263, 11814-9.	3.4	40
98	Reaction of trimethylsilylamines with N-Cbz-L-serine- β^2 -lactone: A convenient route to optically pure β^2 -amino-L-alanine derivatives. <i>Tetrahedron Letters</i> , 1994, 35, 7605-7608.	1.4	39
99	Conversion of cyclic nonaketides to lovastatin and compactin by a <i>lovC</i> deficient mutant of <i>Aspergillus terreus</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 1527-1531.	2.2	39
100	Stereoselective Syntheses of 4-Oxa Diaminopimelic Acid and Its Protected Derivatives via Aziridine Ring Opening. <i>Organic Letters</i> , 2007, 9, 4211-4214.	4.6	39
101	Nuclear Magnetic Resonance Solution Structures of Lactacin Q and Aureocin A53 Reveal a Structural Motif Conserved among Leaderless Bacteriocins with Broad-Spectrum Activity. <i>Biochemistry</i> , 2016, 55, 733-742.	2.5	39
102	Apelin protects against abdominal aortic aneurysm and the therapeutic role of neutral endopeptidase resistant apelin analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13006-13015.	7.1	39
103	Biosynthesis and full NMR assignment of fungichromin, a polyene antibiotic from <i>Streptomyces cellulose</i> . <i>Journal of the American Chemical Society</i> , 1988, 110, 2938-2945.	13.7	38
104	Photolysis of Diacyl Peroxides: A Radical-Based Approach for the Synthesis of Functionalized Amino Acids. <i>Organic Letters</i> , 2003, 5, 2963-2965.	4.6	38
105	Insights into the Mechanism of Action of the Two-Peptide Lantibiotic Lactacin 3147. <i>Journal of the American Chemical Society</i> , 2017, 139, 17803-17810.	13.7	38
106	Biosynthesis of macrolides. 5. Regiochemistry of the labeling of lasalocid A by [^{13}C , ^{18}O]-labeled precursors. <i>Journal of the American Chemical Society</i> , 1981, 103, 5953-5956.	13.7	36
107	Mechanism-based inactivation of peptidylglycine α -hydroxylating monooxygenase (PHM) by a substrate analog, D-phenylalanyl-L-phenylalanyl-D-vinylglycine: inhibition of formation of peptide C-terminal amides. <i>Journal of the American Chemical Society</i> , 1992, 114, 2270-2272.	13.7	36
108	N-phthalimidoaziridines by diastereoselective Addition to β^1, β^2 -unsaturated amides: a route to chiral β^2 -substituted β^1, β^2 -hydrazino acid derivatives. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 1074-1076.	2.0	36

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109	Conjugate addition of radicals generated from diacyloxyiodobenzenes to dehydroamino acid derivatives; a synthesis of diaminopimelic acid analogues. <i>Chemical Communications</i> , 2002, , 224-225.	4.1	36
110	Chemical Synthesis and Biological Activity of the Neopetrosiamides and Their Analogues: Revision of Disulfide Bond Connectivity. <i>Journal of the American Chemical Society</i> , 2010, 132, 1486-1487.	13.7	36
111	Biosynthesis of solanapyrone A, a phytotoxin of <i>Alternaria solani</i> . <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 1282.	2.0	35
112	Stereospecific Synthesis of Phosphonate Analogs of Diaminopimelic Acid (DAP), Their Interaction with DAP Enzymes, and Antibacterial Activity of Peptide Derivatives. <i>Journal of Organic Chemistry</i> , 1994, 59, 5784-5793.	3.2	35
113	Biosynthetic incorporation of advanced precursors into dehydrocurvularin, a polyketide phytotoxin from <i>Alternaria cinerariae</i> . <i>Tetrahedron</i> , 1998, 54, 15937-15958.	1.9	35
114	\hat{I}^2 -Lactones as a New Class of Cysteine Proteinase Inhibitors: \hat{A} Inhibition of Hepatitis A Virus 3C Proteinase by N-Cbz-serine \hat{I}^2 -Lactone. <i>Organic Letters</i> , 1999, 1, 803-806.	4.6	35
115	The stereoselective synthesis of aziridine analogues of diaminopimelic acid (DAP) and their interaction with dap epimerase. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 4402.	2.8	35
116	Synthetic Modification within the $\hat{\alpha}$ -RPRL-Region of Apelin Peptides: Impact on Cardiovascular Activity and Stability to Neprilysin and Plasma Degradation. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6408-6427.	6.4	35
117	Plasma kallikrein cleaves and inactivates apelin-17: Palmitoyl- and PEG-extended apelin-17 analogs as metabolically stable blood pressure-lowering agents. <i>European Journal of Medicinal Chemistry</i> , 2019, 166, 119-124.	5.5	35
118	Biosynthesis of averufin by <i>Aspergillus parasiticus</i> ; detection of ^{18}O -label by ^{13}C -n.m.r. isotope shifts. <i>Journal of the Chemical Society Chemical Communications</i> , 1980, , 183.	2.0	34
119	Solution Structures of the Linear Leaderless Bacteriocins Enterocin 7A and 7B Resemble Carnocyclin A, a Circular Antimicrobial Peptide. <i>Biochemistry</i> , 2013, 52, 3987-3994.	2.5	34
120	Purification and characterization of antimicrobial peptides from fish isolate <i>Carnobacterium maltaromaticum</i> C2: Carnobacteriocin X and carnolysins A1 and A2. <i>International Journal of Food Microbiology</i> , 2014, 173, 81-88.	4.7	34
121	Crystal Structure of Diaminopimelate Epimerase from <i>Arabidopsis thaliana</i> , an Amino Acid Racemase Critical for L-Lysine Biosynthesis. <i>Journal of Molecular Biology</i> , 2009, 385, 580-594.	4.2	33
122	The first isolation of an alkoxy-N,N-dialkylaminodifluorosulfane from the reaction of an alcohol and DAST: an efficient synthesis of (2S,3R,6S)-3-fluoro-2,6-diaminopimelic acid. <i>Chemical Communications</i> , 1999, , 1739-1740.	4.1	32
123	Exploration of inhibitors for diaminopimelate aminotransferase. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 2141-2151.	3.0	32
124	Explorations of fungal biosynthesis of reduced polyketides $\hat{\alpha}$ a personal viewpoint. <i>Natural Product Reports</i> , 2014, 31, 1253-1259.	10.3	32
125	Biosynthesis of monocerin. Incorporation of 2H -, ^{13}C -, and ^{18}O -labelled acetates by <i>Drechslera ravenelii</i> . <i>Journal of the Chemical Society Chemical Communications</i> , 1984, , 756.	2.0	31
126	Studies on the biosynthesis of the mycotoxin austin, a meroterpenoid metabolite of <i>Aspergillus ustus</i> . <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1989, , 807.	0.9	31

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145	N-Terminal Finger Stabilizes the S1 Pocket for the Reversible Feline Drug GC376 in the SARS-CoV-2 Mpro Dimer. <i>Journal of Molecular Biology</i> , 2021, 433, 167003.	4.2	23
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